

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.
 TANG, Y. Tom
 CORLEY, Neil C.
 GUEGLER, Karl J.
 GORGONE, Gina A.
 AZIMZAI, Yalda
 KASER, Matthew R.
 YUE, Henry

- <120> COENZYME A-UTILIZING ENZYMES
- <130> PF-0622 PCT
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- <150> 09/185,217; unassigned <151> 1998-11-03; 1998-11-03
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- <212> PRT
- <213> Homo sapiens
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- <221> misc_feature
- <223> Incyte ID No: 1580751CD1

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Val Ala Leu Ala Lys Glu Leu Ile Phe Thr Gly Arg Arg Leu Ser
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Gly Thr Glu Ala His Val Leu Gly Leu Val Asn His Ala Val Ala
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                                    130
Gln Asn Glu Glu Gly Asp Ala Ala Tyr Gln Arg Ala Arg Ala Leu
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Ala Gln Glu Ile Leu Pro Gln Ala Pro Ile Ala Val Arg Leu Gly
Lys Val Ala Ile Asp Arg Gly Thr Glu Val Asp Ile Ala Ser Gly
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Met Ala Ile Glu Gly Met Cys Tyr Ala Gln Asn Ile Pro Thr Arg
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Glu	Ser	Arg	Gln	Glu	Lys	Ser	Asn	Arg	Ile	Lys	Ala	Lys	Pro	Val
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Asn	Ser	Lys	Pro	Asp	Ser	Ala	Tyr	Arg	Ser	Val	Asn	Ser	Leu	Asp
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Gly	Leu	Ala	Ser	Val	Leu	Tyr	Pro	Gly	Cys	Asp	Thr	Leu	Asp	Lys
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Val	Phe	Thr	Tyr	Ala	Lys	Asn	Lys	Phe	Lys	Asn	Lys	Arg	Leu	Leu
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Gly	Thr	Arq	Glu	Val	Leu	Asn	Glu	Glu	Asp	Glu	Val	Gln	Pro	Asn
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Glv	Lvs	Ile	Phe	Lvs	Lvs	Val	Ile	Leu	Gly	Gln	Tyr	Asn	Trp	Leu
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Ser	Tvr	Glu	Asp		Phe	Val	Ara	Ala	Phe	Asn	Phe	Glv	Asn	Gly
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Leu	Gln	Met	Leu		Gln	Lys	Pro	Lvs		Asn	Ile	Ala	Ile	Phe
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Cve	Gl 11	Thr	7 20		Glu	Trp	Mot	Tla		Δla	Gln	Δla	Cvs	
Cys	GIU	1111	Arg	170	GIU	ııp	Mec	110	175	ALG	0111	AIG	Cys	180
Mot	Th. 120	7	Dha		T 011	17-1	Th~	T 011		717	Thy	T 011	Clv	
Met	IÀL	ASII	Pne		ьеи	Val	THE	neu		мта	1111	neu	GIY	195
				185					190					エフコ



	-													
Pro	Ala	Ile	Val	His 200	Ala	Leu	Asn	Glu	Thr 205	Glu	Val	Thr	Asn	Ile 210
Ile	Thr	Ser	Lys		Leu	Leu	Gln	Thr		Leu	Lys	Asp	Ile	
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Pro	Pro	Thr	Trp	230 Ser	Glu	Phe	Pro	Lys	Gly	Ile	Ile	Val	His	Thr
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Gln	Pro	Wie.	Sar	260	Dro	Len	Dro	Sar	265	Tle	Δla	Val	Tle	270 Met
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Tyr	Thr	Ser	Gly	Ser 290	Thr	Gly	Leu	Pro	Lys 295	Gly	Val	Met	Ile	Ser 300
His	Ser	Asn	Ile	Ile 305	Ala	Gly	Ile	Thr	Gly 310	Met	Ala	Glu	Arg	Ile 315
Pro	Glu	Leu	Gly	Glu	Glu	Asp	Val	Tyr	Ile	Gly	Tyr	Leu	Pro	
Ala	His	Val	Leu	320 Glu	Leu	Ser	Ala	Glu	325 Leu	Val	Cys	Leu	Ser	
Glv	Cys	Ara	Tle	335 Glv	Tvr	Ser	Ser	Pro	340 Gln	Thr	Leu	Ala	Asp	345 Gln
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Lys	Pro	Thr	Leu	Met 380	Ala	Ala	Val	Pro	Glu 385	Ile	Met	Asp	Arg	Ile 390
Tyr	Lys	Asn	Val	Met	Asn	Lys	Val	Ser	Glu	Met	Ser	Ser	Phe	Gln
Arg	Asn	Leu	Phe	395 Ile	Leu	Ala	Tyr	Asn	400 Tyr	Lys	Met	Glu	Gln	405 Ile
Ser	Lys	Glv	Ara	410 Asn	Thr	Pro	Leu	Cvs	415 Asp	Ser	Phe	Val	Phe	420 Arg
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Gly	Gly	Ala	Pro	Leu 455	Ser	Ala	Thr	Thr	Gln 460	Arg	Phe	Met	Asn	Ile 465
Cys	Phe	Cys	Cys		Val	Gly	Gln	Gly		Gly	Leu	Thr	Glu	Ser 480
Ala	Gly	Ala	Gly	Thr	Ile	Ser	Glu	Val	Trp	Asp	Tyr	Asn	Thr	Gly
Arg	Val	Gly	Ala	485 Pro	Leu	Val	Cys	Cys	490 Glu	Ile	Lys	Leu	Lys	495 Asn
Trp	Glu	Glu	Glv	500 Glv	Tvr	Phe	Asn	Thr	505 Asp	Lvs	Pro	His	Pro	510 Arg
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GIY	Glu	ше	Leu	530	GIÀ	GIY	GIN	ser	535	Thr	мет	GIY	Tyr	540
Lys	Asn	Glu	Ala	Lys 545	Thr	Lys	Ala	Asp	Phe 550	Phe	Glu	Asp	Glu	Asn 555
Gly	Gln	Arg	Trp	Leu 560	Cys	Thr	Gly	Asp	Ile 565	Gly	Glu	Phe	Glu	Pro 570
Asp	Gly	Cys	Leu	Lys	Ile	Ile	Asp	Arg	Lys	Lys	Asp	Leu	Val	Lys
Leu	Gln	Ala	Gly	575 Glu	Tyr	Val	Ser	Leu	580 Gly	Lys	Val	Glu	Ala	585 Ala
	Lys			590	_				595					600
	-1-									-15		-1-		



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Glu Leu Thr Glu Leu Ala Arg Lys Lys Gly Leu Lys Gly Thr Trp
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Glu Glu Leu Cys Asn Ser Cys Glu Met Glu Asn Glu Leu Leu Lys
                650
                                    655
Val Leu Ser Glu Ala Ala Ile Ser Ala Ser Leu Glu Lys Phe Glu
                665
                                    670
Ile Leu Val Lys Ile Arg Leu Ser Pro Glu Pro Trp Thr Pro Glu
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                                    685
Thr Gly Leu Val Thr Asp Ala Phe Lys Leu Lys Arg Lys Glu Leu
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Ile	Val	Pro	Ala	Ile	Phe	Gly	Val	Ser	Phe	Gly	Ile	Arg	Lys	Leu
				35					40					45
Tyr	Met	Lys	Ser	Leu	Leu	Lys	Ile	Phe	Ala	Trp	Ala	Thr	Leu	Arg
				50					55					60
Met	Glu	Arg	Gly	Ala	Lys	Glu	Lys	Asn	His	Gln	Leu	Tyr	Lys	Pro
				65					70					75
Tyr	Thr	Asn	Gly	Ile	Ile	Ala	Lys	Asp	Pro	Thr	Ser	Leu	Glu	Glu
				80					85					90
Glu	Ile	Lys	Glu	Ile	Arg	Arg	Ser	Gly	Ser	Ser	Lys	Ala	Leu	Asp
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Asn	Thr	Pro	Glu	Phe	Glu	Leu	Ser	Asp	Ile	Phe	Tyr	Phe	Cys	Arg
				110					115					120
Lys	Gly	Met	Glu	Thr	Ile	Met	Asp	Asp	Glu	Val	Thr	Lys	Arg	Phe
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Ser	Ala	Glu	Glu	Leu	Glu	Ser	Trp	Asn	Leu	Leu	Ser	Arg	Thr	Asn
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Tyr	Asn	Phe	Gln	Tyr	Ile	Ser	Leu	Arg	Leu	Thr	Val	Leu	Trp	Gly
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Leu	Gly	Val	Leu	Ile	Arg	Tyr	Cys	Phe	Leu	Leu	Pro	Leu	Arg	Ile
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Ala	Leu	Ala	Phe	Thr	Gly	Ile	Ser	Leu	Leu	Val	Val	Gly	Thr	Thr
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Val	Val	Glv	Tvr	Leu	Pro	Asn	Glv	Arg	Phe	Lvs	Glu	Phe	Met	Ser
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Thr Ala Ile Ile Thr Tyr His Asp Arg Glu Asn Arg Pro Arg Asn
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Ile Leu Ala Ser Asp Gly Tyr Tyr Ala Met Val Gly Gln Val His
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Gly Gly Leu Met Gly Val Ile Gln Arg Ala Met Val Lys Ala Cys
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                                     280
Pro His Val Trp Phe Glu Arg Ser Glu Val Lys Asp Arg His Leu
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                290
Val Ala Lys Arg Leu Thr Glu His Val Gln Asp Lys Ser Lys Leu
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Pro Ile Leu Ile Phe Pro Glu Gly Thr Cys Ile Asn Asn Thr Ser
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Val Met Met Phe Lys Lys Gly Ser Phe Glu Ile Gly Ala Thr Val
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                335
Tyr Pro Val Ala Ile Lys Tyr Asp Pro Gln Phe Gly Asp Ala Phe
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                350
Trp Asn Ser Ser Lys Tyr Gly Met Val Thr Tyr Leu Leu Arg Met
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Met Thr Arg Glu Ala Asp Glu Asp Ala Val Gln Phe Ala Asn Arg
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Val Lys Ser Ala Ile Ala Arg Gln Gly Gly Leu Val Asp Leu Leu
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Trp Asp Gly Gly Leu Lys Arg Glu Lys Val Lys Asp Thr Phe Lys
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cgaggtcagc cgctccgcgc acgtcccctc gctgcagcgc taccgcgagc tgcaccggcg 180
ctccgtggag gagccgcggg aattctgggg agacattgcc aaggaatttt actggaagac 240

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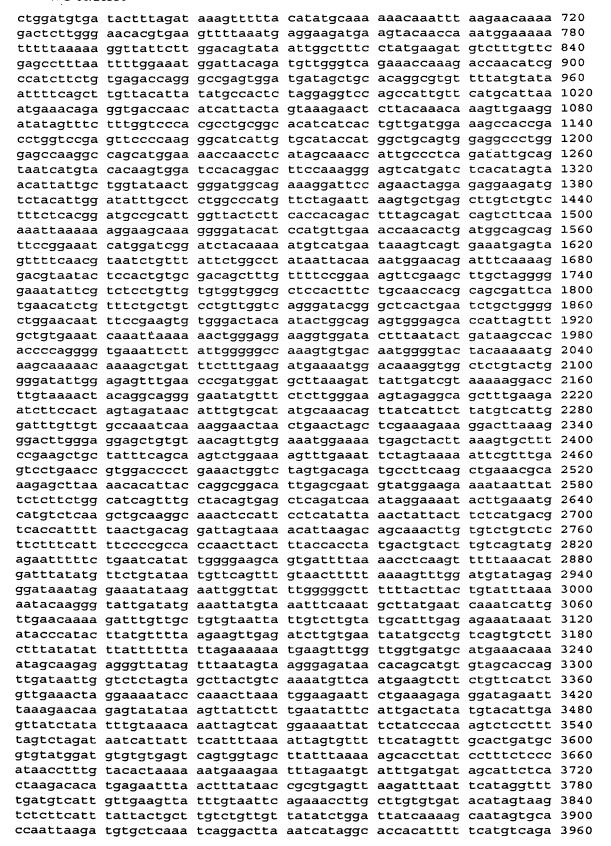
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1808



Head of the Ham

WO 00/26350 PCT/US99/25820

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